

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P946791

Luminaire Tested: **GALN-SB2B-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9889 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

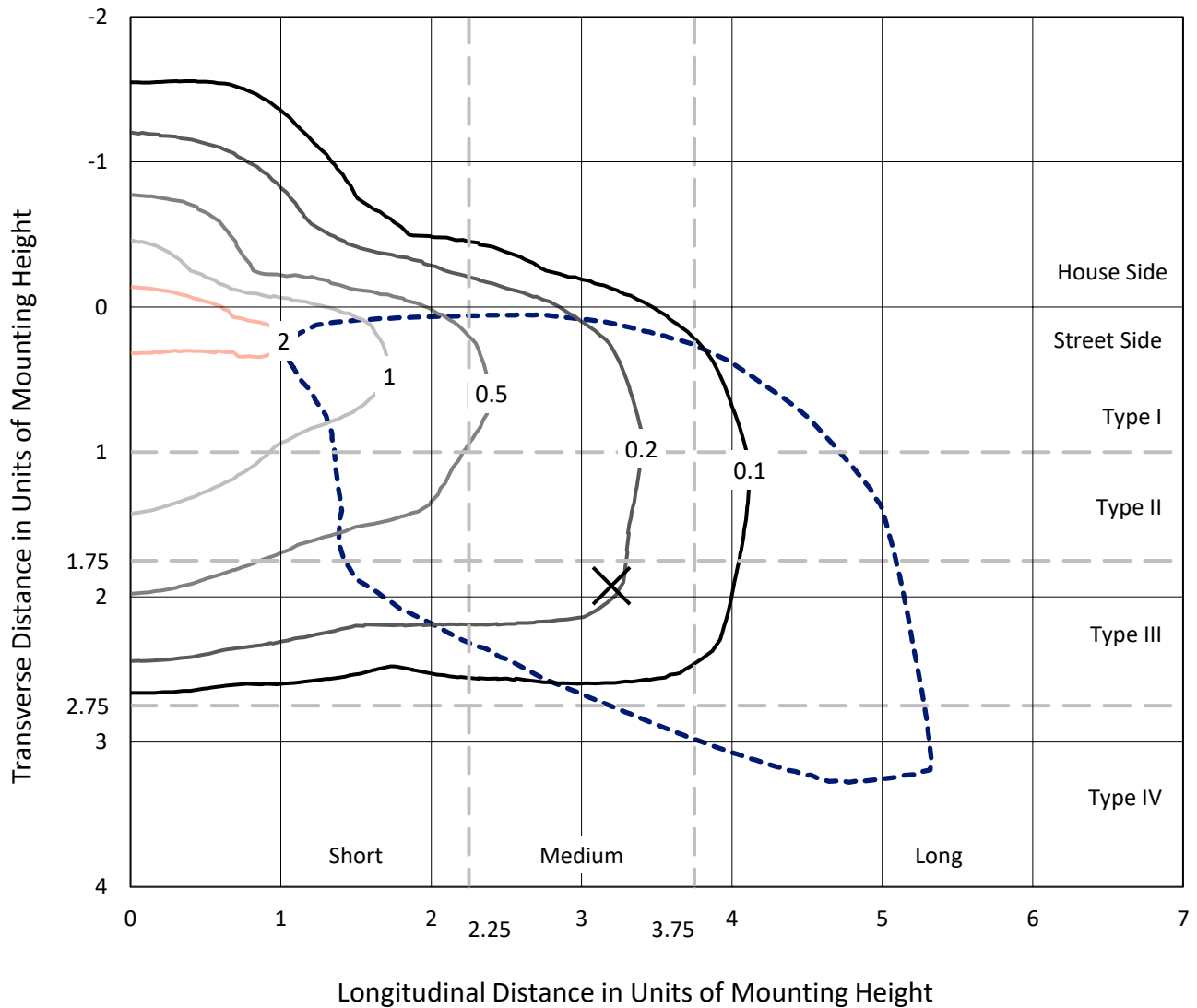
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

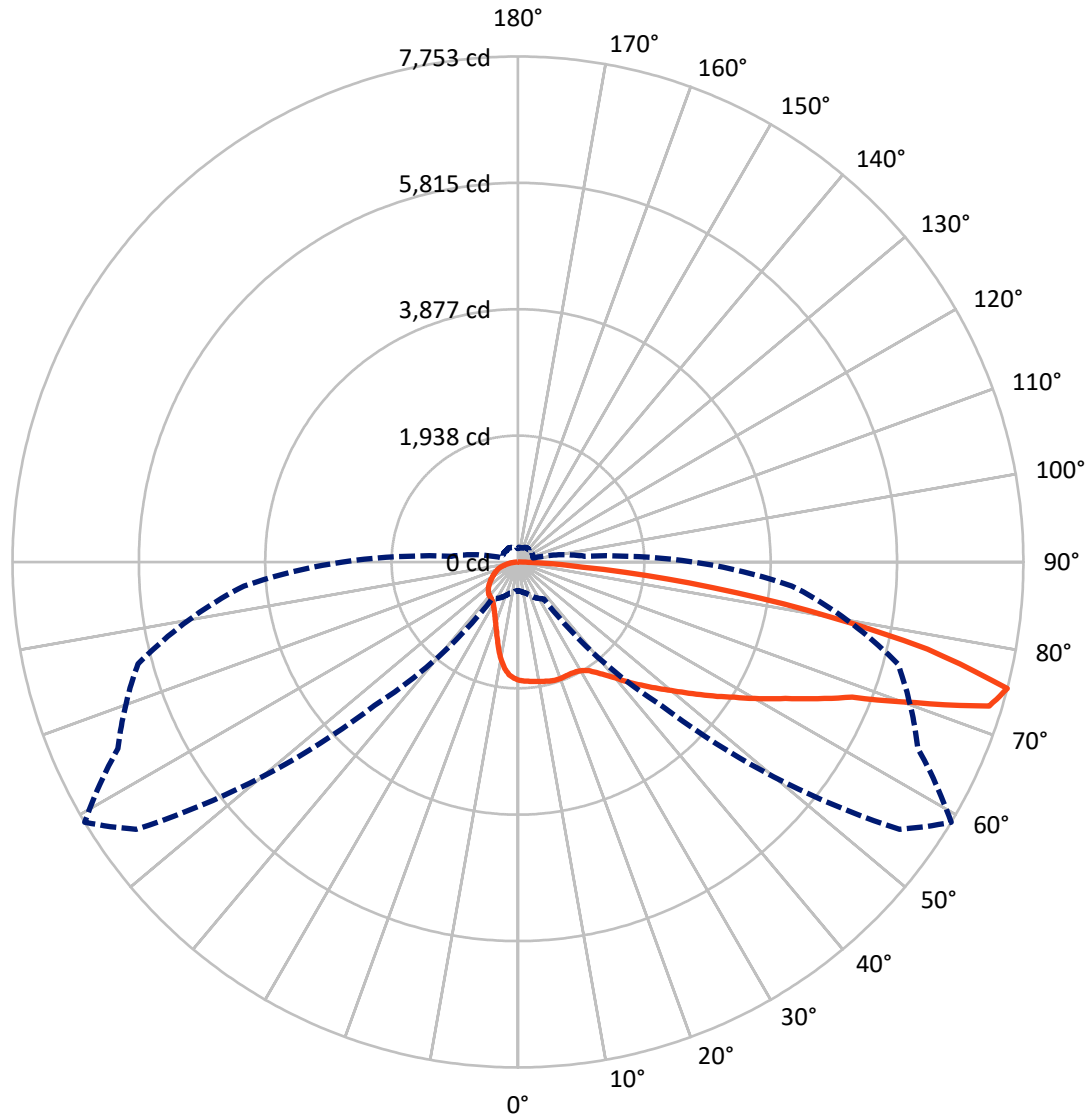
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1854.7	0.0	1854.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8034.3	0.0	8034.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	9889.0	0.0	9889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	1.6
10°-20°	416.0	4.2
20°-30°	631.9	6.4
30°-40°	939.3	9.5
40°-50°	1396.9	14.1
50°-60°	1896.1	19.2
60°-70°	2314.8	23.4
70°-80°	1816.6	18.4
80°-90°	314.7	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9889.0	100.0
0°-180°	9889.0	100.0

Coefficient of Utilization



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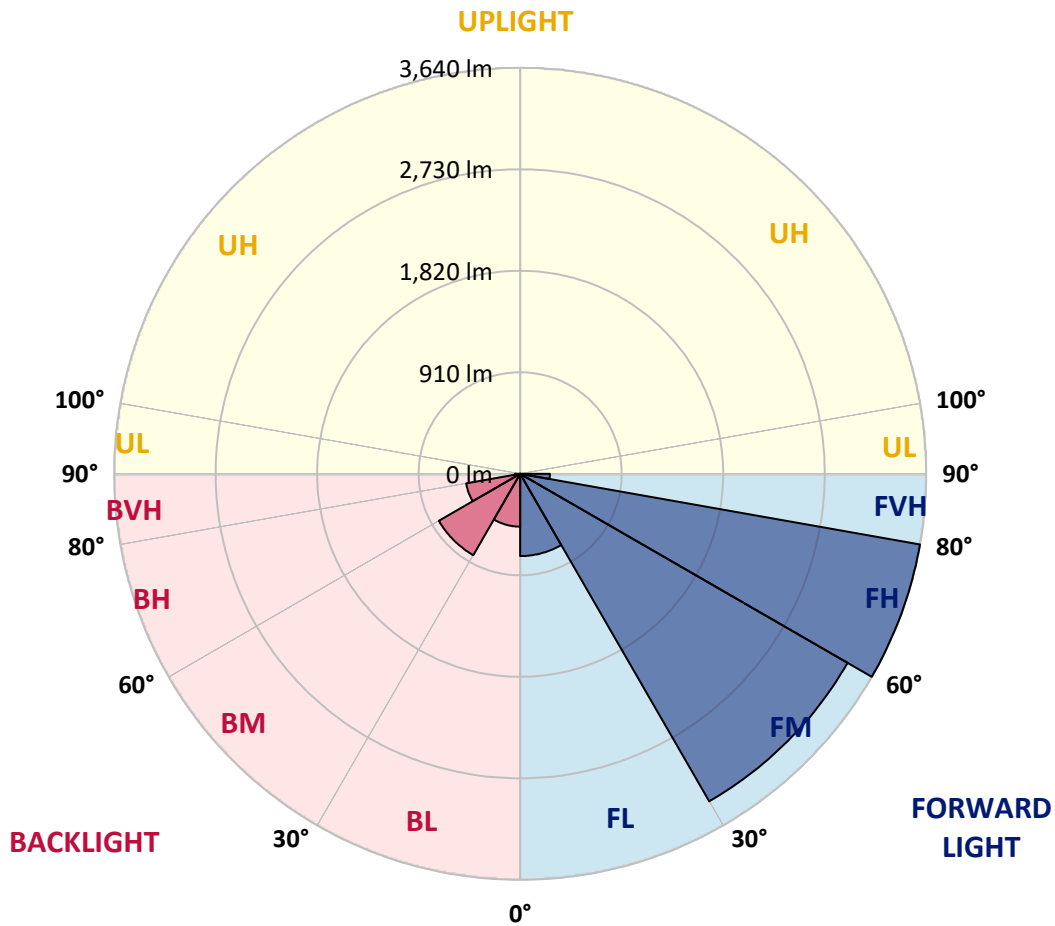
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.3	7.5			
FM (30°-60°)	3390.4	34.3			
FH (60°-80°)	3640.0	36.8			G2/5000
FVH (80°-90°)	266.5	2.7			G3/500
BL (0°-30°)	473.3	4.8	B1/500		
BM (30°-60°)	841.9	8.5	B1/1000		
BH (60°-80°)	491.4	5.0	B1/500		G1/500
BVH (80°-90°)	48.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1
2.5°	1830.5	1824.1	1830.5	1827.9	1826.8	1824.7	1825.2	1828.9	1826.8	1829.5
5°	1818.3	1814.6	1821.0	1819.4	1826.3	1827.3	1834.3	1838.5	1841.2	1841.7
7.5°	1798.1	1794.4	1803.4	1810.8	1825.7	1830.0	1844.4	1851.3	1855.0	1861.4
10°	1724.1	1722.5	1744.9	1773.1	1808.2	1830.0	1851.8	1863.5	1869.4	1886.4
12.5°	1593.3	1595.4	1624.7	1678.9	1749.1	1819.4	1860.3	1877.3	1886.4	1907.7
15°	1468.3	1467.7	1499.6	1557.6	1656.0	1772.5	1864.6	1893.8	1909.3	1940.7
17.5°	1395.9	1393.8	1416.1	1460.3	1551.8	1700.7	1853.9	1902.9	1935.9	1975.2
20°	1382.6	1378.4	1390.1	1411.9	1476.8	1622.0	1826.3	1902.9	1957.1	2008.2
22.5°	1431.0	1424.1	1419.3	1416.7	1445.4	1557.1	1794.9	1896.5	1988.5	2055.6
25°	1528.4	1517.7	1493.3	1469.3	1460.8	1527.8	1767.2	1894.9	2035.3	2119.4
27.5°	1685.8	1672.5	1623.1	1565.6	1514.0	1542.7	1755.0	1904.5	2086.9	2187.0
30°	1881.1	1866.7	1804.5	1716.2	1623.6	1598.1	1770.4	1932.7	2152.9	2276.9
32.5°	2056.1	2040.1	1986.9	1897.0	1772.0	1693.8	1819.4	1986.4	2256.6	2401.9
35°	2211.4	2192.8	2144.9	2061.9	1953.9	1828.4	1907.7	2081.6	2404.0	2605.1
37.5°	2363.6	2341.8	2289.6	2201.9	2126.3	2007.7	2029.5	2204.0	2599.8	2851.9
40°	2533.8	2502.4	2439.1	2352.4	2279.0	2217.8	2189.6	2354.0	2798.7	3127.5
42.5°	2698.7	2668.9	2593.4	2519.4	2427.4	2409.9	2375.3	2529.5	3016.3	3430.2
45°	2876.4	2840.8	2749.3	2655.6	2597.6	2537.5	2555.1	2705.1	3229.6	3738.7
47.5°	3042.9	3003.0	2895.0	2790.7	2758.8	2645.0	2720.0	2898.2	3451.5	4051.5
50°	3132.8	3093.4	3003.5	2909.4	2884.4	2777.4	2898.7	3110.5	3683.9	4363.3
52.5°	3207.8	3165.3	3047.7	2995.6	2988.1	2921.6	3119.0	3353.0	3916.4	4638.8
55°	3287.6	3240.3	3090.3	3043.4	3077.5	3083.3	3380.2	3628.1	4162.2	4907.5
57.5°	3379.6	3319.5	3131.2	3083.9	3164.7	3272.7	3680.2	3913.2	4403.7	5156.4
60°	3466.4	3405.7	3209.9	3148.2	3258.9	3492.4	4024.4	4258.5	4677.1	5378.3
62.5°	3483.4	3433.4	3272.7	3272.2	3386.6	3748.8	4431.9	4606.9	4916.0	5597.5
65°	3188.7	3157.3	3062.1	3267.4	3569.6	4118.0	4885.7	5052.7	5219.8	5789.0
67.5°	2426.9	2431.1	2424.2	2820.5	3421.7	4648.4	5542.7	5529.9	5594.8	6003.9
70°	1109.7	1134.7	1297.5	1947.0	2741.3	4709.6	6629.0	6463.5	6065.6	6282.1
72.5°	599.5	618.7	685.2	943.2	1648.1	4187.2	7440.8	7558.3	6691.7	6469.4
75°	439.9	450.6	496.9	599.5	692.1	3112.1	7149.8	7753.0	6769.9	6032.6
77.5°	329.3	334.1	371.9	475.1	354.3	1640.6	5712.9	6421.0	5795.4	4956.4
80°	238.9	244.2	272.4	356.4	248.4	600.1	3922.8	4506.9	3969.1	3159.4
82.5°	164.9	167.0	179.3	242.6	173.4	233.0	2225.8	2642.9	2215.7	1108.6
85°	99.5	102.1	107.5	141.5	98.4	110.7	960.7	993.7	662.3	264.9
87.5°	41.0	43.6	47.9	59.6	38.8	30.9	158.5	199.0	124.0	77.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1815.1	0°	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1
1820.4	2.5°	1817.8	1814.0	1803.9	1790.1	1777.3	1761.4	1754.5	1748.6	1743.3	1733.2
1834.8	5°	1828.9	1818.8	1791.7	1756.6	1716.7	1673.1	1630.5	1601.2	1576.2	1557.6
1851.3	7.5°	1846.0	1826.8	1777.3	1705.5	1614.0	1520.4	1435.8	1375.7	1330.5	1314.0
1874.7	10°	1863.5	1840.6	1754.5	1627.8	1469.9	1325.7	1213.4	1151.7	1115.6	1103.9
1902.3	12.5°	1884.3	1850.7	1718.8	1519.9	1308.7	1150.7	1052.8	1016.6	998.0	991.6
1936.4	15°	1914.6	1859.3	1665.1	1384.7	1154.9	1023.0	959.7	934.7	925.1	924.6
1971.5	17.5°	1937.5	1860.9	1581.6	1240.0	1036.8	945.9	893.7	884.1	890.5	900.1
2006.1	20°	1963.0	1846.5	1472.0	1108.1	953.8	878.3	856.5	862.9	878.3	892.1
2051.8	22.5°	1981.1	1820.4	1339.5	1005.4	882.0	839.5	838.4	851.7	860.2	867.1
2105.6	25°	1997.0	1776.3	1199.1	919.3	823.0	816.1	827.8	823.5	817.6	823.5
2159.3	27.5°	2008.7	1706.6	1073.5	843.7	781.5	800.1	793.2	783.6	783.1	786.3
2222.6	30°	2005.0	1613.5	970.3	771.9	752.2	770.3	753.8	752.2	750.6	752.2
2317.8	32.5°	2005.0	1507.6	891.1	722.4	733.6	726.7	725.1	721.4	715.0	714.4
2447.1	35°	2016.2	1401.8	823.0	695.8	718.2	701.7	702.7	693.7	680.4	674.0
2618.4	37.5°	2039.1	1316.6	755.4	683.1	691.0	690.5	686.2	670.8	647.4	627.2
2832.2	40°	2094.4	1291.6	709.1	677.2	678.3	684.7	673.5	643.7	590.5	557.5
3049.3	42.5°	2181.1	1333.7	699.0	662.8	669.8	676.1	654.3	585.2	547.4	527.7
3277.0	45°	2291.2	1407.1	720.8	642.1	649.5	660.7	595.8	562.8	545.8	546.3
3502.5	47.5°	2430.6	1484.2	761.3	624.0	620.3	626.7	557.0	536.8	513.4	519.2
3719.0	50°	2591.8	1562.4	799.6	599.5	587.8	567.1	532.0	512.8	483.0	469.2
3928.1	52.5°	2766.3	1638.0	815.0	569.7	552.7	528.8	515.0	491.5	455.4	432.5
4125.5	55°	2931.7	1706.6	798.0	534.1	517.6	499.0	496.9	482.5	443.7	411.7
4301.0	57.5°	3088.1	1764.0	755.4	497.9	482.0	470.8	485.2	478.2	429.3	388.3
4467.0	60°	3220.6	1803.4	693.7	461.2	450.1	444.2	466.0	463.9	409.1	363.3
4616.0	62.5°	3325.9	1818.8	625.6	426.1	423.5	412.8	439.4	439.4	383.6	338.9
4746.8	65°	3408.4	1803.9	556.4	391.5	396.9	380.9	407.0	403.8	356.4	317.1
4897.4	67.5°	3481.3	1755.0	479.8	357.5	369.7	349.5	372.9	365.5	326.6	295.2
5027.7	70°	3513.7	1641.1	392.6	323.4	338.3	318.7	338.9	325.0	293.1	271.8
4884.6	72.5°	3253.0	1364.0	309.1	287.8	300.6	284.6	302.2	286.2	256.9	247.4
4218.0	75°	2691.3	1023.5	237.8	249.0	258.5	246.3	258.0	246.3	219.7	226.6
3115.8	77.5°	1954.5	691.0	181.9	208.0	212.3	205.9	216.0	202.7	178.7	177.1
1552.8	80°	971.9	404.8	142.6	164.4	162.8	158.5	170.2	163.8	143.6	152.1
419.2	82.5°	281.4	173.4	103.7	115.4	112.2	113.3	121.8	125.0	187.3	185.7
130.3	85°	88.3	68.1	62.2	64.4	61.2	62.8	71.8	142.6	131.9	77.1
40.4	87.5°	22.9	23.4	15.4	16.5	17.0	20.2	22.9	86.7	41.5	27.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<u>180°</u>
1815.1
1728.4
1542.2
1285.3
1085.8
993.2
926.7
903.8
896.9
870.8
827.2
791.6
758.1
721.4
680.4
634.1
561.8
527.7
549.0
534.1
472.9
432.0
411.7
386.2
361.7
337.3
314.9
293.1
267.6
239.4
206.9
169.2
150.5
189.9
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